

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.64	03/29/2017 03/29/2017	Maksim Khashchuk

LM Start		Rating **	A	Issue No.	<b>2</b>
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_RD2062_01_f_2013_2				
Comment Code					
Inspector Comment					
The O&M Manual is available at the LMA's office.					

No Photos

LM Start		Rating **	A	Issue No.	<b>5</b>
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
DWR ID	DWR_RD2062_01_s_2013_5				
Comment Code					
Inspector Comment					
Adequate flood fight supplies are available on-site.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Left	2.64	03/29/2017 03/29/2017	Maksim Khashchuk

LM Start		Rating **	A	Issue No.	<b>8</b>
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_RD2062_01_s_2013_8				
Comment Code					
Inspector Comment					
The LMA has a flood fight emergency response plan. LMA has attended DWR flood fight taring class.					

No Photos

LM Start	<b>0.04</b>	Rating **	M	Issue No.	<b>7</b>
LM End	<b>2.52</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.807181 °	37.788693 °	
			-121.327459 °	-121.308832 °	
DWR ID	DWR_RD2062_01_s_2017_7				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD2062\_309\_7\_20170405\_00012.jpg



View of the vegetation on the levee slope.

LM Start	<b>0.72</b>	Rating **	C	Issue No.	<b>6</b>
LM End	<b>0.72</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		37.805138 °	37.805138 °	
			-121.316420 °	-121.316420 °	
DWR ID	DWR_RD2062_01_s_2015_6				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					
New levee patrol road is being installed. Make sure all-weather access is available before next flood season.					

No Photos

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.64	03/29/2017 03/29/2017	Maksim Khashchuk

LM Start	2.14	Rating **	M	Issue No.	9
LM End	2.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.793991 °	37.793991 °
				-121.308524 °	-121.308524 °
DWR ID	DWR_RD2062_01_f_2016_9				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
It is recommended to control levee access to prevent possible future damage to the levee slopes.					

Photo 1 of 1 : SP\_2017\_RD2062\_309\_9\_20170313\_00002.jpg



View of the waterside levee slope erosion due to vehicles driving on the slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	03/29/2017 03/29/2017	Maksim Khashchuk

LM Start	0.45	Rating **	U	Issue No.	11
LM End	3.81	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.783106 °	37.807388 °
				-121.337791 °	-121.389491 °
DWR ID	DWR_RD2062_02_s_2017_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD2062\_310\_11\_20170405\_00027.jpg



View of the vegetation on the levee slope.

LM Start	3.64	Rating **	M	Issue No.	8
LM End	3.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.806347 °	37.806347 °
				-121.386692 °	-121.386692 °
DWR ID	DWR_RD2062_02_s_2014_8				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD2062\_310\_8\_20170313\_00001.jpg



View of the erosion from surface runoff on the waterside levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	03/29/2017 03/29/2017	Maksim Khashchuk

LM Start	3.90	Rating **	U	Issue No.	10
LM End	3.95	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.808444 °	37.809195 °
				-121.390435 °	-121.390408 °
DWR ID	DWR_RD2062_02_s_2017_10				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD2062\_310\_10\_20170405\_00026.jpg



View of the vegetation on the levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	03/29/2017 03/29/2017	Maksim Khashchuk

LM Start	-0.04	Rating **	U	Issue No.	1
LM End	0.06	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.809414 °	37.809414 °
				-121.390328 °	-121.390328 °
DWR ID	DWR_RD2062_03_s_2017_1				
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed.					
06/25/2015: No significant change observed.					
07/02/2014: No significant change observed.					
08/13/2013: No significant change observed.					
08/07/2012: The site has been visited by boat survey. No significant change observed					
08/23/2011: Site is at the upstream of a drainage ditch. [2016 Site ID:RD2062U03RM29.93]					

LM Start	<b>-0.04</b>	Rating **	U	Issue No.	<b>1 (cont)</b>
LM End	<b>0.06</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SP\_2017\_RD2062\_311\_1\_20170313\_00001.jpg



Front view of the erosion.

Photo 2 of 2 : SP\_2017\_RD2062\_311\_1\_20170313\_00002.jpg



Close view of the erosion.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	03/29/2017 03/29/2017	Maksim Khashchuk

LM Start	0.02	Rating **	M	Issue No.	2
LM End	0.03	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.809514 °	37.809514 °
				-121.390125 °	-121.390125 °
DWR ID	DWR_RD2062_03_s_2017_2				
Comment Code					
Inspector Comment					
11/09/2016: No significant change observed.					
06/25/2015: The erosion is below a large oak tree. Vegetation is visible around the erosion site. [2016 Site ID:RD2062U03RM29.94]					

LM Start	<b>0.02</b>	Rating **	M	Issue No.	<b>2 (cont)</b>
LM End	<b>0.03</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SP\_2017\_RD2062\_311\_2\_20170313\_00003.jpg



Front view of the erosion site. Note the large tree above the erosion.

Photo 2 of 2 : SP\_2017\_RD2062\_311\_2\_20170313\_00004.jpg



Close view of the erosion.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	03/29/2017 03/29/2017	Maksim Khashchuk

LM Start	0.10	Rating **	U	Issue No.	4
LM End	0.11	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.809932 °	37.809932 °
				-121.388788 °	-121.388788 °
DWR ID	DWR_RD2062_03_s_2017_4				
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed.					
06/25/2015: No significant change observed.					
07/02/2014: No significant change observed.					
08/13/2013: No significant change observed.					
08/07/2012: The site has been visited by boat survey. No significant change observed					
08/23/2011: Hard to view the erosion because of the dense vegetation and trees on site. The site is under the bush, close to the tree. [2016 Site ID:RD2062U03RM30.02]					

Photo 1 of 2 : SP\_2017\_RD2062\_311\_4\_20170313\_00005.jpg



Front view of the site.

LM Start	<b>0.10</b>	Rating **	U	Issue No.	<b>4 (cont)</b>
LM End	<b>0.11</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2017\_RD2062\_311\_4\_20170313\_00006.jpg



Close view of the site. Note vegetation at the site.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	03/29/2017 03/29/2017	Maksim Khashchuk

LM Start	0.17	Rating **	N	Issue No.	6
LM End	0.17	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.810194 °	37.810194 °
				-121.387602 °	-121.387602 °
DWR ID	DWR_RD2062_03_s _ 2012_6				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD2062\_311\_6\_20170313\_00009.jpg



View of the tree stump on the waterside levee slope.

LM Start	0.17	Rating **	M	Issue No.	5
LM End	0.17	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.810268 °	37.810268 °
				-121.387495 °	-121.387495 °
DWR ID	DWR_RD2062_03_s _ 2017_5				
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed.					
06/25/2015: No significant change observed.					
07/02/2014: No significant change observed.					
08/13/2013: No significant change observed.					
08/07/2012: The site has been visited by boat survey. No significant change observed					
08/23/2011: The protection at the levee toe has been washed away.					
[2016 Site ID:RD2062U03RM30.1]					

Photo 1 of 2 : SP\_2017\_RD2062\_311\_5\_20170313\_00007.jpg



Direct view of the site.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	03/29/2017 03/29/2017	Maksim Khashchuk

LM Start	0.17	Rating **	M	Issue No.	5 (cont)	
LM End	0.17	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.810268 °	37.810268 °	
				-121.387495 °	-121.387495 °	
DWR ID	DWR_RD2062_03_s_2017_5					
Comment Code						
Inspector Comment						
07/25/2016: No significant change observed.						
06/25/2015: No significant change observed.						
07/02/2014: No significant change observed.						
08/13/2013: No significant change observed.						
08/07/2012: The site has been visited by boat survey. No significant change observed						
08/23/2011: The protection at the levee toe has been washed away.						
[2016 Site ID:RD2062U03RM30.1]						

Photo 2 of 2 : SP\_2017\_RD2062\_311\_5\_20170313\_00008.jpg



Close view of the erosion.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
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## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	03/29/2017 03/29/2017	Maksim Khashchuk

LM Start	0.22	Rating **	U	Issue No.	8
LM End	0.31	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.810609 °	37.810609 °
				-121.385879 °	-121.385879 °
DWR ID	DWR_RD2062_03_s_2017_8				
Comment Code					
Inspector Comment					
07/25/2106: No significant change observed. More vegetation observed at the site.					
06/25/2015: No significant change observed.					
07/02/2014: No significant change observed.					
08/13/2013: A new pocket erosion at the upper levee slope has been found directly above a large tree. The erosion might have been caused by internal pipe leakage or surface runoff.					
08/07/2012: The site has been visited by boat survey. No significant change observed					
08/23/2011: No significant change observed on site. Dense vegetation is visible along the water line.					
09/07/2010: No significant change observed on site. Much of the upper slope was recently cleared of vegetation by spraying. 4- to 6-foot vertical scarp and pocket erosions are lined along a span of 475 feet. In some sections, the vertical scarp encroaches into the levee prism. There is a lack of berm along this reach, exposing the levee slope to high flow velocities during normal and flood events.					
08/06/2010: Recommended as local maintenance issue, per CLRO.					
03/09/2010: As discussed with Michael Moncrief of MBK Engineers, the site will be 'addressed' later this year.					
09/29/2009: No major change observed since last visit; pocket erosion and a vertical scarp forming; this site was combined with Site RM30.13 and 30.02 with a combined total erosion length of 475 feet; recommended as annual assessment and monitoring of the site, per CLRO CES Evaluation 2008 Report; previously rated "M".					
11/05/2008: Top of vertical scarp has rip rap that appears to be sliding; rodent holes; existing toe rip rap. [2016 Site ID:RD2062U03RM30.19]					

Photo 1 of 1 : SP\_2017\_RD2062\_311\_8\_20170313\_00010.jpg



Close view of the pocket erosion. Note the dense vegetation at the site.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	03/29/2017 03/29/2017	Maksim Khashchuk

LM Start	0.35	Rating **	M	Issue No.	9	
LM End	0.35	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.811101	°	37.811101
				-121.384402	°	-121.384402
DWR ID	DWR_RD2062_03_s_2017_9					
Comment Code						
Inspector Comment						
07/25/2016: No significant change observed.						
06/25/2015: No significant change observed.						
07/02/2014: No significant change observed.						
08/13/2013: No significant change observed.						
08/07/2012: The site has been visited by boat survey. No significant change observed						
08/23/2011: The site is right at the downstream of a river bend. [2016 Site ID:RD2062U03RM30.27]						

LM Start	<b>0.35</b>	Rating **	M	Issue No.	<b>9 (cont)</b>
LM End	<b>0.35</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : SP\_2017\_RD2062\_311\_9\_20170313\_00011.jpg



Front view of the erosion.

Photo 2 of 3 : SP\_2017\_RD2062\_311\_9\_20170313\_00012.jpg



Close view of the site. Note the dense vegetation at the site.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	03/29/2017 03/29/2017	Maksim Khashchuk

LM Start	0.35	Rating **	M	Issue No.	9 (cont)	
LM End	0.35	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.811101	°	37.811101
				-121.384402	°	-121.384402
DWR ID	DWR_RD2062_03_s_2017_9					
Comment Code						
Inspector Comment						
07/25/2016: No significant change observed.						
06/25/2015: No significant change observed.						
07/02/2014: No significant change observed.						
08/13/2013: No significant change observed.						
08/07/2012: The site has been visited by boat survey. No significant change observed						
08/23/2011: The site is right at the downstream of a river bend. [2016 Site ID:RD2062U03RM30.27]						

Photo 3 of 3 : SP\_2017\_RD2062\_311\_9\_20170313\_00013.jpg



Front view of the erosion.

LM Start	0.51	Rating **	M	Issue No.	38
LM End	0.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.812552 °	37.812552 °
				-121.382781 °	-121.382781 °
DWR ID	DWR_RD2062_03_s_2016_38				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD2062\_311\_38\_20170313\_00023.jpg



View of the landside levee slope erosion around the pipe.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	03/29/2017 03/29/2017	Maksim Khashchuk

LM Start	<b>0.55</b>	Rating **	M	Issue No.	<b>13</b>
LM End	<b>0.56</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR Erosion Survey		37.813070 °	37.813070 °	
			-121.383100 °	-121.383100 °	

DWR ID DWR\_RD2062\_03\_s\_2017\_13

#### Comment Code

#### Inspector Comment

07/25/2016: No significant change observed.  
 06/25/2015: No significant change observed.  
 07/02/2014: No significant change observed.  
 08/13/2013: No significant change observed.  
 08/07/2012: The site has been visited by boat survey. No significant change observed.  
 08/23/2011: No significant change observed on site.  
 09/07/2010: No significant change observed on site. Much of the placed rip rap revetment has slid. It is no longer adequately protecting the slope.  
 08/06/2010: Recommended as local maintenance issue, per CLRO Report.  
 03/09/2010: As discussed with Michael Moncrief of MBK, site will be 'addressed' this year.  
 09/29/2009: No major change observed since last visit; a section of the rip rap has slipped, exposing a levee section that has eroded; recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM30.43, LM0.63; previously rated "U".  
 11/05/2008: Site is located inside of a bend; scarp looks to be into the levee prism; piles of concrete chunks placed on the slope, with some of them already starting to slide. [2016 Site ID:RD2062U03RM30.43]

LM Start	<b>0.55</b>	Rating **	M	Issue No.	<b>13 (cont)</b>
LM End	<b>0.56</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SP\_2017\_RD2062\_311\_13\_20170313\_00014.jpg



Front view of the site. Previously placed rip rap slipped, exposing the underlying soils and creating a pocket.

Photo 2 of 2 : SP\_2017\_RD2062\_311\_13\_20170313\_00015.jpg



Front view of the site. Rip rap is no longer adequately protecting levee slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	03/29/2017 03/29/2017	Maksim Khashchuk

LM Start	1.04	Rating **	C	Issue No.	36
LM End	1.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.817764 °	37.817764 °
				-121.378623 °	-121.378623 °
DWR ID	DWR_RD2062_03_s _ 2016_36				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.18	Rating **	U	Issue No.	17
LM End	1.19	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.819290 °	37.819290 °
				-121.378880 °	-121.378880 °
DWR ID	DWR_RD2062_03_s _ 2017_17				
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed.					
06/25/2015: No significant change observed.					
07/02/2014: No significant change observed.					
08/13/2013: No significant change observed.					
08/07/2012: The site has been visited by boat survey. No significant change observed					
08/23/2011: No significant change observed on site.					
09/07/2010: No significant change observed on site. Much of the seasonal grass along the slope was cleared. Site consists of an existing scalloped erosion approximately 30 feet long by 5 feet wide at its widest opening. The lateral crack is extended outwards along the middle slope. There is a 1 to 2 feet of differential settlement that could further develop into a shallow slide.					
08/06/2010: Recommended as local maintenance issue, per CLRO.					
03/09/2010: As discussed with Michael Moncrief of MBK Engineer, site will be 'addressed' this year.					
09/28/2009: No major change observed; section of rip rap has slipped, creating a terraced effect; dense vegetation growth; recommended as a local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM31.12,LM1.25; previously rated "U".					
09/14/2006: 1-2' into prism. [2016 Site ID:RD2062U03RM31.12]					

Photo 1 of 1 : SP\_2017\_RD2062\_311\_17\_20170313\_00016.jpg



Front view of the site.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	03/29/2017 03/29/2017	Maksim Khashchuk

LM Start	<b>1.32</b>	Rating **	C	Issue No.	<b>42</b>
LM End	<b>1.38</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.820483 °	37.821253 °	
			-121.377118 °	-121.376993 °	
DWR ID	DWR_RD2062_03_f_2016_42				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	<b>1.35</b>	Rating **	A/W	Issue No.	<b>18</b>
LM End	<b>1.35</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.820885 °	37.820885 °	
			-121.376986 °	-121.376986 °	
DWR ID	DWR_RD2062_03_s_2012_18				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberry bush blocks visibility.					

Photo 1 of 1 : SP\_2017\_RD2062\_311\_18\_20170313\_00017.jpg



05/11/2011 Elderberry bush on water side slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	03/29/2017 03/29/2017	Maksim Khashchuk

LM Start	1.39	Rating **	U	Issue No.	43
LM End	1.40	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.821380 °	37.821380 °
				-121.376900 °	-121.376900 °
DWR ID	DWR_RD2062_03_s_2017_43				

**Comment Code**

**Inspector Comment**

07/25/2016: No significant change observed.  
 06/25/2015: No significant change observed.  
 07/02/2014: No significant change observed.  
 08/13/2013: No significant change observed.  
 08/07/2012: The site has been visited by boat survey. No significant change observed  
 08/23/2011: No significant change observed on site.  
 09/07/2010: No significant change observed on site. There is a small- to medium sized Oak tree on the mid-slope just above rip rap. Some of the rip rap has collapsed, creating a pocket erosion just above the existing toe rip rap and upstream of the Oak tree.  
 08/06/2010: Recommended as local maintenance issue, per CLRO.  
 03/09/2010: As discussed with Michael Moncrief of MBK Engineer, site will be 'addressed' in 2010.  
 09/29/2009: No major change since last visit; sliding of the rip rap at the base of the lone tree; there is noticeable man-made trail and foot traffic extending from the crown to the toe; much of the broken concrete used as temporary rip rap has slid, exposing portion of the bare levee slope; recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM31.3, LM1.45; previously rated "M".  
 11/05/2008: Portion of rip rap collapsing.  
 09/14/2006: Portion of rip rap along the slope has collapsed; exposed levee section is starting to erode, exposing roots from the nearby tree.  
 [2016 Site ID:RD2062U03RM31.28]

LM Start	<b>1.39</b>	Rating **	U	Issue No.	<b>43 (cont)</b>
LM End	<b>1.40</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SP\_2017\_RD2062\_311\_43\_20170313\_00027.jpg



Front view of the erosion site.

Photo 2 of 2 : SP\_2017\_RD2062\_311\_43\_20170313\_00028.jpg



Front view of the site. Note the existing broken concrete on the upper levee slope as well as on the lower slope and at the toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	03/29/2017 03/29/2017	Maksim Khashchuk

LM Start	1.61	Rating **	M	Issue No.	29
LM End	1.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.820833 °	37.820833 °
				-121.373152 °	-121.373152 °
DWR ID	DWR_RD2062_03_s_2016_29				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD2062\_311\_29\_20170313\_00018.jpg



View of a tire rut on the landside levee hinge.

LM Start	1.66	Rating **	M	Issue No.	41
LM End	1.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.820863 °	37.820481 °
				-121.372277 °	-121.369421 °
DWR ID	DWR_RD2062_03_f_2016_41				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD2062\_311\_41\_20170405\_00047.jpg



View of the vegetation on the landside levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	03/29/2017 03/29/2017	Maksim Khashchuk

LM Start	2.12	Rating **	C	Issue No.	40
LM End	2.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.818620 °	37.818620 °
				-121.364830 °	-121.364830 °
DWR ID	DWR_RD2062_03_f_2016_40				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
LMA corrected the erosion of levee due to break in the pipe.					

No Photos

LM Start	3.40	Rating **	M	Issue No.	39
LM End	3.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.819007 °	37.817526 °
				-121.345610 °	-121.343479 °
DWR ID	DWR_RD2062_03_f_2016_39				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Clear tumbleweeds from levee toe.					

Photo 1 of 1 : SP\_2017\_RD2062\_311\_39\_20170405\_00045.jpg



View of the vegetation at the landside levee toe.

LM Start	3.61	Rating **	M	Issue No.	31
LM End	3.66	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.816982 °	37.816541 °
				-121.342939 °	-121.342191 °
DWR ID	DWR_RD2062_03_s_2015_31				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
About a 3 ft vertical cut at the levee toe into the levee prism.					

Photo 1 of 1 : SP\_2017\_RD2062\_311\_31\_20170313\_00019.jpg



View of the eroded landside levee toe.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	03/29/2017 03/29/2017	Maksim Khashchuk

LM Start	4.30	Rating **	M	Issue No.	37
LM End	4.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.819436 °	37.819096 °
				-121.335469 °	-121.334829 °
DWR ID	DWR_RD2062_03_f_2016_37				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Toe road encroaches into the levee toe.					

Photo 1 of 1 : SP\_2017\_RD2062\_311\_37\_20170313\_00022.jpg



View of the toe road encroaching into the levee prism.

LM Start	4.83	Rating **	M	Issue No.	35
LM End	4.91	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.812849 °	37.811682 °
				-121.336116 °	-121.336271 °
DWR ID	DWR_RD2062_03_f_2014_35				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
2 to 3 feet vertical cut possibly caused by previous floods.					

Photo 1 of 1 : SP\_2017\_RD2062\_311\_35\_20170313\_00020.jpg



View of a 2-3 feet vertical cut at the landside levee toe.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement